IN THE CLAIMS

Please amend the claims as follows:

1. (original) A memory management system for allocating memory in a memory space according to amounts of memory requested by a client, said memory space comprises a number of equally sized containers, and at least some of said containers comprise a number of equally sized sub containers, said system further comprises:

- means for generating a memory block, wherein the size of said memory block is selected between a number of predefined sizes, where the selected size is at least equal to said amount of memory requested by the client,

- means for allocating memory for said memory block in a container, the container being the smallest container having a size being at least twice the size of the memory block.

2. (original) A memory management system according to claim 1, wherein the sub container being placed in a container has a size being at least twice as small as said container.

3. (original) A memory management system according to claim 1, wherein a container is dedicated for equally sized memory blocks.

4.   (original) A memory management system according to claim 1, wherein the size of the largest container has been selected in such a way that when filling the memory space with the largest containers, the remaining area being smaller than said largest container has a size which is significantly smaller than said largest container.

5.   (original) A memory management system according to claim 1, wherein the size of the sub container being placed in a container has been selected in such a way that when filling the container with said sub containers, the remaining area being smaller than said sub container has a size which is significantly smaller than said sub container.

6.   (original) A method of allocating memory in a memory space according to the amounts of memory requested by a client, said memory space comprises a number of equally sized containers, and at least some of said containers comprise a number of equally sized sub containers, said method comprises the steps of:

- generating a memory block, wherein the size of said memory block is selected between a number of predefined sizes, where the selected size is at least equal to said amount of memory requested by the client,

- allocating memory for said memory block in a container, the

   container being the smallest container having a size being at

   least twice the size of the memory block.

7.   (original)   A method according to claim 6, wherein the sub

container being placed in a container has a size being at least

twice as small as said container.

8.   (original)   A method according to claim 6, wherein a container

is dedicated for equally sized memory blocks.

9.   (original)   A method according to claim 6, wherein the size of

the largest container is selected in such a way that when filling

the memory space with said largest containers, the remaining area

being smaller than said largest container has a size which is

significantly smaller than said largest container.

10.   (original)   A method according to claim 6, wherein the size of

the sub container being placed in a container is selected in such a

way that when filling the container with said sub containers, the

remaining area being smaller than said sub container has a size

which is significantly smaller than said sub container.

11. (currently amended) An operating system embodied on a computer readable medium, the operating system comprising a method of managing memory according to claim 6 101.

12. (currently amended) A computer readable medium comprising an algorithm for performing a method of managing memory according to claim 6 101.

13. (currently amended) An embedded real-time software system the real-time software system comprising a method of managing memory according to claim 6 101.

14. (currently amended) A file system comprising a method of managing memory according to claim 6 101.